

# Bare Demo of IEEEtran.cls for Conferences

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**Abstract**—SCADA systems are becoming increasingly prevalent, especially wirelessly networked control systems. [citation] The integration of wireless networking into the operation of these SCADA systems is good for many reasons, but these integrations often ignore security as a priority. [citation] Our goal is to better understand the capabilities and the vulnerabilities these systems characteristically possess. In order to do this we will explore the use of cross-layer attacks on networked control systems and develop a framework for testing these attacks. We have developed testbed consists of a simulated network, a simulated factory driven by a matlab-ran Tennessee-Eastman process and the interface between these systems. Our research has confirmed that these vulnerabilities are exploitable and we have established this in our testbed. These vulnerabilities point to the necessity for a change in the way we look at securing SCADA integrated wireless networks.

## I. INTRODUCTION

This demo file is intended to serve as a “starter file” for IEEE conference papers produced under L<sup>A</sup>T<sub>E</sub>X using IEEEtran.cls version 1.7 and later. I wish you the best of success.

mds

January 11, 2007

### A. Subsection Heading Here

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## II. RELATED WORK

## III. APPROACH

### A. Simulated Network

#### B. Controller

1) Actuator:

2) Sensor:

3) Internet Cloud:

4) Factory Access Point:

5) Factory Bridge:

### C. Matlab Simulation

1) Tennessee Eastman:

### D. C++ to Matlab Bridge

## IV. IMPLEMENTATION

### A. Simulated Network

1) Controller:

2) Actuator:

3) Sensor:

4) Internet Cloud:

5) Factory Access Point:

6) Factory Bridge:

### B. Matlab Simulation

1) Tennessee Eastman:

### C. C++ to Matlab Bridge

## V. ATTACKS

### A. DDoS

1) :

## VI. DISCUSSION

## VII. CONCLUSION

## VIII. CONCLUSION

The conclusion goes here.

## ACKNOWLEDGMENT

The authors would like to thank...

## REFERENCES

- [1] H. Kopka and P. W. Daly, *A Guide to L<sup>A</sup>T<sub>E</sub>X*, 3rd ed. Harlow, England: Addison-Wesley, 1999.

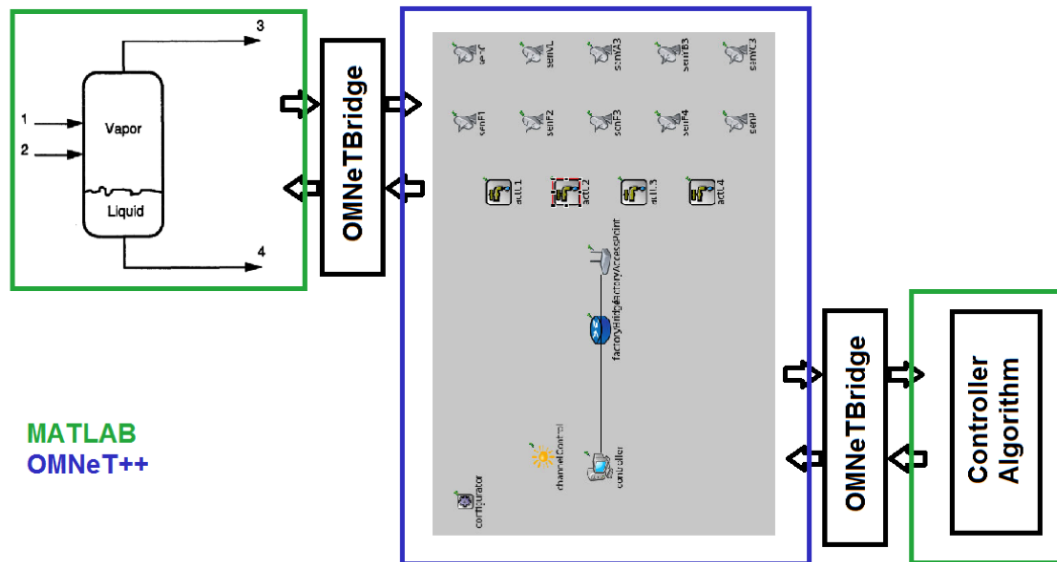


Fig. 1. System Diagram.

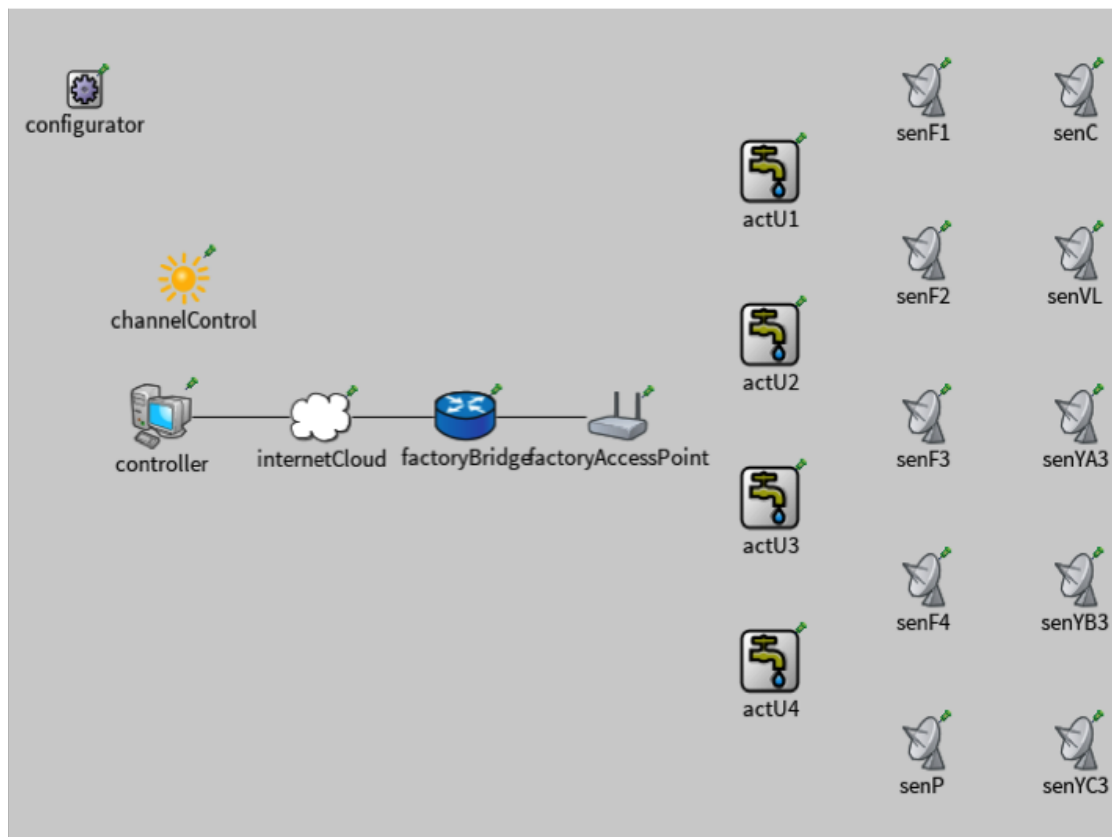


Fig. 2. Network Diagram.